



AGENDA

- USSTRATCOM mission and roles
- M&S Components
- M&S Current Technologies
- M&S Future Directions

THE MISSION OF STRATEGIC COMMAND

Deter major military attack on the United States and its allies; and if deterrence fails, employ forces

UNITED STATES STRATEGIC

COMMAND

A War Preventer

 Deter major military attack, and if deterrence fails, employ forces

A Planner

 Integrate strategic deterrence policies and requirements, thereby linking planning and execution. Provide planning support to regional CINCs

An Advocate

 Primary voice for strategic force structure, modernization, and arms control implications



COMMAND RELATIONSHIPS WARTIME FORCES

NCA

STRATCOM

AIR MOBILITY COMMAND

TF TANKERS (15TH AIR FORCE)



ATLANTIC FLEET

TF LANT (COMSUBLANT)



TF MED (SUB GROUP 8)



PACIFIC FLEET

TF PAC (COMSUBPAC)



TF ABN COMM (STRATCOMM WG1)



AF SPACE COMMAND

TF ICBM (20TH AIR FORCE)



AIR COMBAT COMMAND

TF BOMBERS (8TH AIR FORCE)

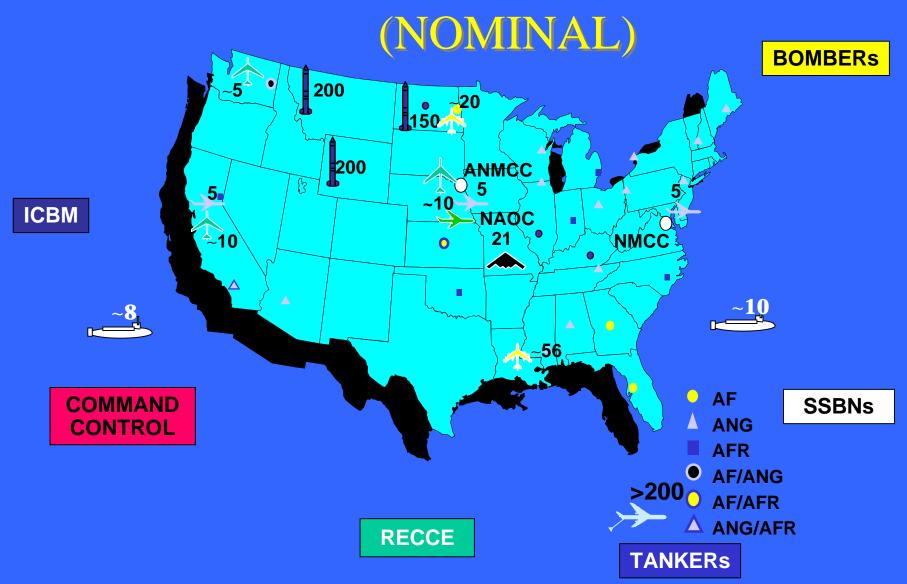


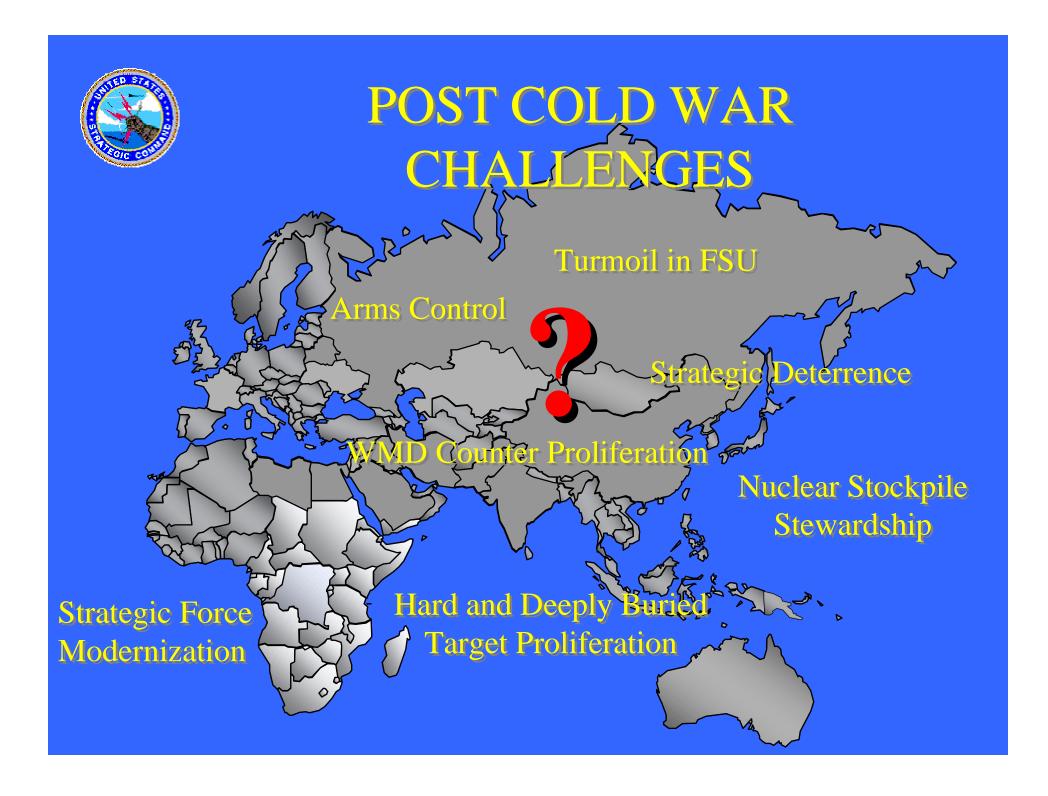
TF RECCE (12TH AIR FORCE)





STRATEGIC COMMAND FORCES WARTIME POSTURE







U. S. STRATEGIC COMMAND M & S MAJOR COMPONENTS



Strategic Systems

WMD / Counterproliferation

Consequences of Execution







For Distributed Collaborative Planning/Analysis (DCP/A):

- Theater Integrated Planning System (TIPS)
- Common Operational Modeling,
 Planning, and Simulation
 - Strategy (COMPASS)
- Collaborative Contingency Targeting (CCT)

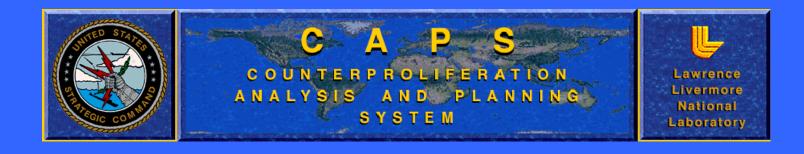




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For Counterproliferation/Proliferation Path/Nodal Analysis:

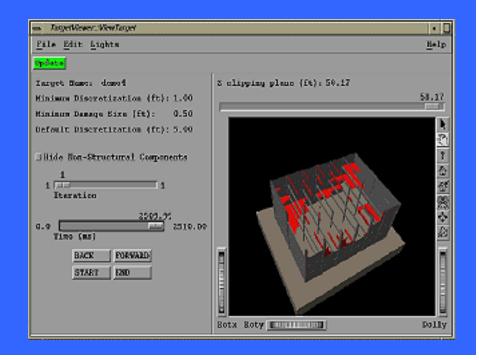
Counterproliferation Analysis and Planning System (CAPS)



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For weapon lethality/target vulnerability analysis:

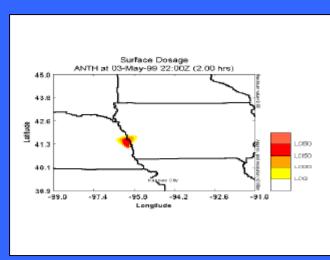
- Air Force Research Lab's Modular Effectiveness Vulnerability Assessment (MEVA) a deliberate planning tool
- Defense Threat Reduction
 Agency's Munitions Effects
 Assessment (MEA) a crisis
 action planning tool
- Probability of Damage Calculator (PDCALC)



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For Consequence Analysis:

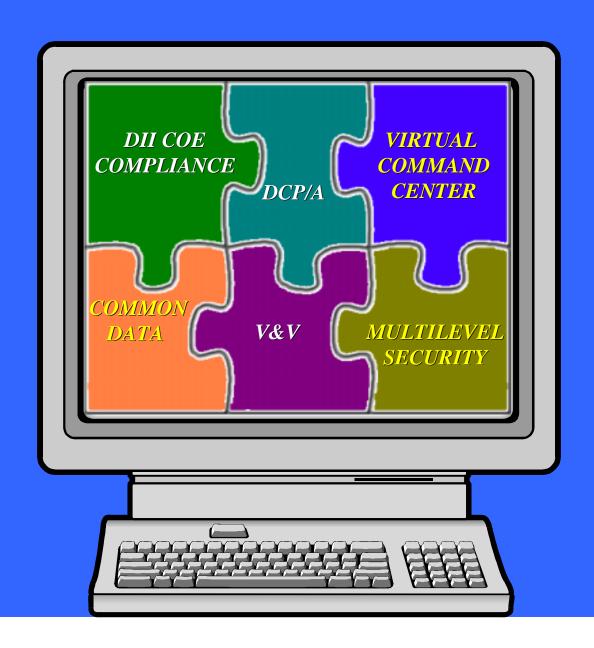
- Hazard Prediction Assessment Capability & Fallout Assessment System/Civilian Vulnerability Indicator Code (HPAC & FAS/CIVIC)
 - Nuclear & conventional weapons on NBC facilities
 - Atmospheric transport and dispersion
 - Casualty prediction



Anthrax Dispersion in HPAC



MISSION ENVIRONMENT





FUTURE DIRECTIONS

Increased fidelity in modeling:

- Atmospheric transport & dispersion
 - More accurate incorporation of meteorology
- Relocatable targets
- Underground targets in hardened geologies
- Population distribution

New Areas:

- Strategic Exercise Simulation
- Information operations analysis
- Atmospheric transport and dispersion in urban terrain
- Secondary Nuclear Effects

